

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

|                        |                   |
|------------------------|-------------------|
| Application Number     | 10/052,076        |
| Filing Date            | 01/16/2002        |
| First Named Inventor   | Dan Kikinis       |
| Art Unit               | 2145              |
| Examiner Name          | Patrice L. Winder |
| Attorney Docket Number | P1553D2           |

Sheet 1 of 7

**U. S. PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|-----------------------|--------------------------|--|--------------------------------|--|---|
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       |                          | US- 5,774,670                            | 06-30-1998                     | Montulli   |   |
|                       |                          | US- 5,737,619                            | 04-07-1998                     | Judson   |   |
|                       |                          | US- 5,706,427                            | 01-06-1998                     | Tabuki   |   |
|                       |                          | US- 5,701,451                            | 12-23-1997                     | Rogers et al.                                      |   |
|                       |                          | US- 5,572,643                            | 11-05-1996                     | Judson   |   |
|                       |                          | US- 5,530,852                            | 06-25-1996                     | Meske Jr. et al.                                   |   |
|                       |                          | US- 5,918,013                            | 06-29-1999                     | Mighdoll et al.                                    |   |
|                       |                          | US- 5,812,865                            | 09-22-1998                     | Theimer et al.                                     |   |
|                       |                          | US- 5,754,938                            | 05-19-1998                     | Herz et al.  |   |
|                       |                          | US- 5,623,600                            | 04-22-1997                     | Ji et al.  |   |
|                       |                          | US- 5,748,897                            | 05-05-1998                     | Kativar  |   |
|                       |                          | US- 5,613,148                            | 03-18-1997                     | Bezviner   |   |
|                       |                          | US- 5,781,550                            | 07-14-1998                     | Templin et al.                                     |   |
|                       |                          | US- 5,805,803                            | 09-08-1998                     | Birrell et al.                                     |   |
|                       |                          | US- 5,696,898                            | 12-09-1997                     | Baker et al.                                       |   |
|                       |                          | US- 5,586,260                            | 12-17-1996                     | Hu   |   |
|                       |                          | US- 5,826,025                            | 10-20-1998                     | Gramlich   |   |
|                       |                          | US- 5,706,507                            | 01-06-1998                     | Schloss  |   |
|                       |                          | US- 5,678,041                            | 10-14-1997                     | Baker et al.                                       |   |

**FOREIGN PATENT DOCUMENTS**

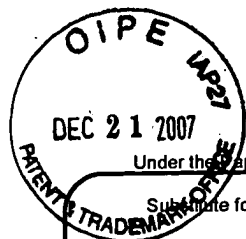
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|-----------------------|--------------------------|---|-----------------------------------|--|---|----------------|
|                       |                          | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) |                                   |  |   |                |
|                       |                          | WO 97/35402 A1  | 09-25-1997                        | Bell Communications Research, Inc                  |   |                |
|                       |                          | WO 97/46943 A1  | 12-11-1997                        | WEBTV Networks, Inc.                               |   |                |
|                       |                          | JP 5-274229   | 10-22-1993                        | Unknown  |   |                |
|                       |                          | JP 63-086655  | 04-18-1988                        | Tokyo Shibaura Electric Co.                        |   |                |
|                       |                          | JP 8-204703   | 08-09-1996                        | Sharp KK   |   |                |
|                       |                          | JP 6-103189   | 04-15-1994                        | ETO Tomohiko                                       |   |                |

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2 of 7

**Complete if Known**

|                        |                   |
|------------------------|-------------------|
| Application Number     | 10/052,076        |
| Filing Date            | 01/16/2002        |
| First Named Inventor   | Dan Kikinis       |
| Art Unit               | 2145              |
| Examiner Name          | Patrice L. Winder |
| Attorney Docket Number | P1553D2           |

**U. S. PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|-----------------------|--------------------------|--|--------------------------------|--|---|
|                       |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                       |                          | US- 5,754,939                            | 05-19-1998                     | Herz et al.  |   |
|                       |                          | US- 5,809,415                            | 09-15-1998                     | Rossman  |   |
|                       |                          | US- HI,641                               | 04-01-1997                     | Sharman  |   |
|                       |                          | US- 4,039,999                            | 08-02-1977                     | Weston   |   |
|                       |                          | US- 5,150,031                            | 09-22-1992                     | James et al.                                       |   |
|                       |                          | US- 5,159,592                            | 10-27-1992                     | Perkins  |   |
|                       |                          | US- 5,251,329                            | 10-05-1993                     | Takagi et al.                                      |   |
|                       |                          | US- 5,325,362                            | 06-28-1994                     | Aziz   |   |
|                       |                          | US- 5,367,556                            | 11-22-1994                     | Marui et al.                                       |   |
|                       |                          | US- 5,533,174                            | 07-02-1996                     | Flowers Jr. et al.                                 |   |
|                       |                          | US- 5,548,727                            | 08-20-1996                     | Meehan   |   |
|                       |                          | US- 5,564,070                            | 10-08-1996                     | Want et al.  |   |
|                       |                          | US- 5,572,528                            | 11-05-1996                     | Shuen  |   |
|                       |                          | US- 5,636,217                            | 06-03-1997                     | Moelard  |   |
|                       |                          | US- 5,710,883                            | 01-20-1998                     | Hong et al.  |   |
|                       |                          | US- 5,727,159                            | 03-10-1998                     | Kikinis  |   |
|                       |                          | US- 5,742,598                            | 04-21-1998                     | Dunn et al.  |   |
|                       |                          | US- 5,758,078                            | 05-26-1998                     | Kurita et al.                                      |   |
|                       |                          | US- 5,764,235                            | 06-09-1998                     | Hunt et al.  |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|-----------------------|--------------------------|---|-----------------------------------|--|---|----------------|
|                       |                          | Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known) |                                   |  |   |                |
|                       |                          | JP 9-16487  | 01-17-1997                        | Unknown  |   |                |
|                       |                          |   |                                   |  |   |                |
|                       |                          |   |                                   |  |   |                |
|                       |                          |   |                                   |  |   |                |
|                       |                          |   |                                   |  |   |                |
|                       |                          |   |                                   |  |   |                |

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 3 of 7

**Complete if Known**

|                        |                   |
|------------------------|-------------------|
| Application Number     | 10/052,076        |
| Filing Date            | 01/16/2002        |
| First Named Inventor   | Dan Kikinis       |
| Art Unit               | 2145              |
| Examiner Name          | Patrice L. Winder |
| Attorney Docket Number | P1553D2           |

| U. S. PATENT DOCUMENTS |                          |  |                                |  |   |
|------------------------|--------------------------|--|--------------------------------|--|---|
| Examiner<br>Initials*  | Cite<br>No. <sup>1</sup> | Document Number                          | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                        |                          | Number-Kind Code <sup>2</sup> (if known) |                                |  |   |
|                        |                          | US- 5,768,528                            | 06-16-1998                     | Stumm  |   |
|                        |                          | US- 5,790,789                            | 08-04-1998                     | Suarez   |   |
|                        |                          | US- 5,790,960                            | 08-04-1998                     | Miyashita  |   |
|                        |                          | US- 5,835,789                            | 11-10-1998                     | Ueda et al.  |   |
|                        |                          | US- 5,870,549                            | 02-09-1999                     | Bobo, II   |   |
|                        |                          | US- 5,873,045                            | 02-16-1999                     | Lee et al.   |   |
|                        |                          | US- 5,892,767                            | 04-06-1999                     | Bell et al.  |   |
|                        |                          | US- 5,897,644                            | 04-27-1999                     | Nielsen  |   |
|                        |                          | US- 5,907,815                            | 05-25-1999                     | Grimm et al.                                       |   |
|                        |                          | US- 5,953,506                            | 09-14-1999                     | Kalra et al.                                       |   |
|                        |                          | US- 6,014,701                            | 01-11-2000                     | Chaddha  |   |
|                        |                          | US- 6,023,714                            | 02-08-2000                     | Hill et al.  |   |
|                        |                          | US- 6,073,033                            | 06-06-2000                     | Campo  |   |
|                        |                          | US- 5,627,829                            | 05-06-1997                     | Gleeson et al.                                     |   |
|                        |                          | US- 6,073,176                            | 06-06-2000                     | Baindur et al.                                     |   |
|                        |                          | US- 6,085,247                            | 07-04-2000                     | Parsons Jr. et al.                                 |   |
|                        |                          | US- 6,125,285                            | 09-26-2000                     | Chavez et al.                                      |   |
|                        |                          | US- 6,128,649                            | 10-03-2000                     | Smith et al.                                       |   |
|                        |                          | US- 6,154,778                            | 11-28-2000                     | Koistinen et al.                                   |   |

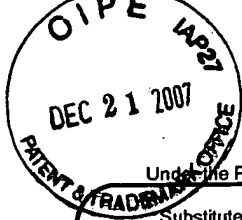
| FOREIGN PATENT DOCUMENTS |                          |   |                                   |  |   |                |
|--------------------------|--------------------------|---|-----------------------------------|--|---|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document   | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                          | Country Code <sup>3</sup> *Number <sup>4</sup> *Kind Code <sup>5</sup> (if known) |                                   |  |   |                |
|                          |                          |   |                                   |  |   |                |
|                          |                          |   |                                   |  |   |                |
|                          |                          |   |                                   |  |   |                |
|                          |                          |   |                                   |  |   |                |
|                          |                          |   |                                   |  |   |                |
|                          |                          |   |                                   |  |   |                |
|                          |                          |   |                                   |  |   |                |

|                       |                    |
|-----------------------|--------------------|
| Examiner<br>Signature | Date<br>Considered |
|-----------------------|--------------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 4 of 7

**Complete if Known**

|                        |                   |
|------------------------|-------------------|
| Application Number     | 10/052,076        |
| Filing Date            | 01/16/2002        |
| First Named Inventor   | Dan Kikinis       |
| Art Unit               | 2145              |
| Examiner Name          | Patrice L. Winder |
| Attorney Docket Number | P1553D2           |

| U. S. PATENT DOCUMENTS |                          |  |                                   |  |   |
|------------------------|--------------------------|--|-----------------------------------|--|---|
| Examiner<br>Initials*  | Cite<br>No. <sup>1</sup> | Document Number                          | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                        |                          | Number-Kind Code <sup>2</sup> (if known) |                                   |  |   |
|                        |                          | US- 6,195,366                            | 02-27-2001                        | Kayashima et al.                                   |   |
|                        |                          | US- 6,233,017                            | 05-15-2001                        | Chaddha  |   |
|                        |                          | US- 6,243,596                            | 06-05-2001                        | Kikinis  |   |
|                        |                          | US- 6,253,241                            | 06-26-2001                        | Chaddha  |   |
|                        |                          | US- 6,324,648                            | 11-27-2001                        | Grantges Jr.                                       |   |
|                        |                          | US- 6,339,794                            | 01-15-2002                        | Bolosky et al.                                     |   |
|                        |                          | US- 6,341,133                            | 01-22-2002                        | Kawamoto et al.                                    |   |
|                        |                          | US- 2001-0002851                         | 06-07-2001                        | Shimada et al.                                     |   |
|                        |                          | US- 6,076,109                            | 06-13-2000                        | Kikinis  |   |
|                        |                          | US-                                      |                                   |  |   |
|                        |                          | US-                                      |                                   |  |   |
|                        |                          | US-                                      |                                   |  |   |
|                        |                          | US-                                      |                                   |  |   |
|                        |                          | US-                                      |                                   |  |   |
|                        |                          | US-                                      |                                   |  |   |
|                        |                          | US-                                      |                                   |  |   |
|                        |                          | US-                                      |                                   |  |   |
|                        |                          | US-                                      |                                   |  |   |
|                        |                          | US-                                      |                                   |  |   |

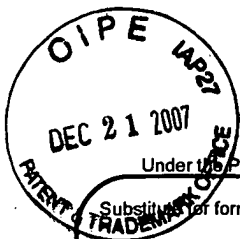
| FOREIGN PATENT DOCUMENTS |                          |  |                                   |  |   |                |
|--------------------------|--------------------------|--|-----------------------------------|--|---|----------------|
| Examiner<br>Initials*    | Cite<br>No. <sup>1</sup> | Foreign Patent Document  | Publication<br>Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Pages, Columns, Lines,<br>Where Relevant Passages<br>Or Relevant Figures Appear | T <sup>6</sup> |
|                          |                          | Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> ( <i>if known</i> ) |                                   |  |   |                |
|                          |                          |  |                                   |  |   |                |
|                          |                          |  |                                   |  |   |                |
|                          |                          |  |                                   |  |   |                |
|                          |                          |  |                                   |  |   |                |
|                          |                          |  |                                   |  |   |                |
|                          |                          |  |                                   |  |   |                |
|                          |                          |  |                                   |  |   |                |

|                       |                    |
|-----------------------|--------------------|
| Examiner<br>Signature | Date<br>Considered |
|-----------------------|--------------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitutes for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

|       |   |    |   |                        |                   |
|-------|---|----|---|------------------------|-------------------|
| Sheet | 5 | of | 7 | Application Number     | 10/052,076        |
|       |   |    |   | Filing Date            | 01/16/2002        |
|       |   |    |   | First Named Inventor   | Dan Kikinis       |
|       |   |    |   | Art Unit               | 2145              |
|       |   |    |   | Examiner Name          | Patrice L. Winder |
|       |   |    |   | Attorney Docket Number | P1553D2           |

**NON PATENT LITERATURE DOCUMENTS**

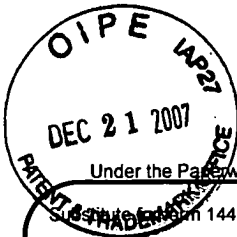
| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T <sup>2</sup> |
|-----------------------|--------------------------|---|----------------|
|                       |                          | BROOKS ET AL., Application-Specific Proxy Servers as HTTP Stream Transducers, www.w3.org/Conferences/WWW4/Papers/56/, February 6, 2002, pp. 1-11  |                |
|                       |                          | COURTOIS ET AL., A PDA-to-World-Wide-Web Interface, PDA Developers, January/February 1995, 3.1, Creative Digital Publishing Inc., pp. 1-3   |                |
|                       |                          | BARTLETT, Experience with a Wireless World Wide Web Client, IEEE, 1995, pp. 154-157, (a portion of this material was presented at the IEEE Workshop on Mobile Computing Systems and Applications, December 1994, Santa Cruz, California)                        |                |
|                       |                          | SEBASTIAN RUPLEY, Web Terminals Take Shape, PC Magazine Online, www.zdnet.com/pcmag/issues/1504/pcm00015.htm, February 20, 1996, pp.1-3   |                |
|                       |                          | AT&T'S Internet Phone Becomes Official, PC Magazine Online, www.zdnet.com/pcmag/news/trends/t960716a.htm, July 16, 1996, pp. 1-2  |                |
|                       |                          | Netscape Backs Navio, PC Magazine Online, www.zdnet.com/pcmag/news/trends/t9660826a, August 26, 1996, pp.1-3  |                |
|                       |                          | PRESTON GRALLA, (chapter 14) How Network Computers (NC's) Work, How the Internet Works, 1997, submitted pages 1-8, Macmillan Computer Publishing, US  |                |
|                       |                          | UNKNOWN, XHTML (TM) 1.0: The Extensible HyperText Markup Language, http://www.w3.org/TR.xhtml 1, January 26, 2000, all pages, W3C, Internet   |                |
|                       |                          | JOEL F. BARTLETT, Experience with a Wireless World Wide Web Client, WRL Technical Note TN-46, March 1995, pages 1-13 Digital Western Research Laboratory, Palo Alto, CA, US   |                |
|                       |                          | TANENBAUM, Structured Computer Organization, Prentice Hall, 1984, pages 10-12   |                |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |   |    |   |                          |                   |
|---|---|----|---|--------------------------|-------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                   |
|   |   |    |   | Application Number       | 10/052,076        |
|   |   |    |   | Filing Date              | 01/16/2002        |
|   |   |    |   | First Named Inventor     | Dan Kikinis       |
|   |   |    |   | Art Unit                 | 2145              |
|   |   |    |   | Examiner Name            | Patrice L. Winder |
| Sheet   | 6 | of | 7 | Attorney Docket Number   | P1553D2           |

| NON PATENT LITERATURE DOCUMENTS |                          |   |  |                |
|---------------------------------|--------------------------|---|--|----------------|
| Examiner<br>Initials*           | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  | T <sup>2</sup> |
|                                 |                          | CHIKARMANE ET AL., Mobile IP-based Multicast as a Service for Mobile Hosts, p. 11-18, IEEE, 1995  |  |                |
|                                 |                          | "Cyberscope-Hot Property-A Smart Phone Gets Smarter" (1 Page) from Newsweek (USA) 02/22/1999  |  |                |
|                                 |                          | FOX A., ET AL., "Reducing WWW latency and bandwidth requirements by real-time distillation" Computer Networks and ISDN Systems, Elsevier Science BV vol. 28, 1996 p. 1445-1456  |  |                |
|                                 |                          | GESSLER, S. ET AL., "PDAs as Mobile WWW Browsers" Computer Networks and ISDN Systems, vol. 28, no. 1 Elsevier Science BV, 12/01/1995, p. 53-59, XP004001210 ISSN: 0169-7552   |  |                |
|                                 |                          | KAWAMATA, Y., Internet Technique in the Multimedia Era, Interface, CQ Publishing Company, Sept. 1, 1995, Vol. 21, No. 9, p. 151-166   |  |                |
|                                 |                          | MEGZARI, O. ET AL., "A Distributed Platform for Interactive Multimedia" 1994 Canadian Conference on Electrical and Computer Engineering, 755-758 (MEDIABASE Laboratory Dept. of Electrical Engineering, University of Ottawa                                    |  |                |
|                                 |                          | PERKINS, CHARLES E., Simplified Routing for Mobile Computers Using TCP/IP, pages 7-13, IEEE, 1992   |  |                |
|                                 |                          | QU ET AL., A Practical Method for Achieving Portable Communications in the Internet Context, 1512-1516, IEEE, 1995  |  |                |
|                                 |                          | ROTHERMEL, KURT ET AL., "QoS Negotiation and Resource Reservation for Distributed Multimedia Applications" Proc. IEEE International Conference on Multimedia Computing and System, 319-326, 1997  |  |                |
|                                 |                          | SIMPSON, W., I Png Mobility Considerations, Ipng Mobility, Network Working Group, pages 1-9, August 1994  |  |                |

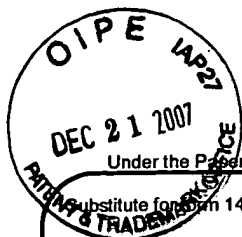
|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:  
Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

|   |   |    |   |                          |                   |
|---|---|----|---|--------------------------|-------------------|
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use as many sheets as necessary) |   |    |   | <b>Complete if Known</b> |                   |
|   |   |    |   | Application Number       | 10/052,076        |
|   |   |    |   | Filing Date              | 01/16/2002        |
|   |   |    |   | First Named Inventor     | Dan Kikinis       |
|   |   |    |   | Art Unit                 | 2145              |
|   |   |    |   | Examiner Name            | Patrice L. Winder |
| Sheet   | 7 | of | 7 | Attorney Docket Number   | P1553D2           |

| NON PATENT LITERATURE DOCUMENTS |                          |   |  |                |
|---------------------------------|--------------------------|---|--|----------------|
| Examiner<br>Initials*           | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  | T <sup>2</sup> |
|                                 |                          | WANG, R. ET AL., "A Multimedia File Structure for Continuous and Discrete Media" Canadian Conference on Electrical and Computer Engineering, 644-647 IEEE 1993  |  |                |
|                                 |                          | WILLIAMS, T., "Embedded Oss Hustle to Support Networked Devices" Electronic Design vol. 45, no. 11, May 27, 1997, pages 113, 114, 116   |  |                |
|                                 |                          | YANG, OLIVER ET AL., "Modeling and Performance Analysis of File Transfer in a Satellite Wide Area Network; IEEE Journal on Selected Areas in Communications, Vol. 10, No. 2 pp. 428-436, Feb. 1992  |  |                |
|                                 |                          | BRUCE ZENEL ET AL., "Intelligent Communication Filtering for Limited Bandwith Environments" from the Computer Science Department of Columbia University, 4-5 May 1995, XP002094011  |  |                |
|                                 |                          | "GloMop: Global Mobile Computing By Proxy" Position Paper, 13 September 1995, XP002094009   |  |                |
|                                 |                          | TERRI WATSON, "Application Design for Wireless Computing" Workshop on Mobile Computing Systems and Applications, Santa Cruz, CA, 8-9 December 1994  |  |                |
|                                 |                          | TOMASZ IMIELINSKI ET AL., "Mobile Computing", January 1996  |  |                |
|                                 |                          | ARMANDO FOX ET AL., "Reducing WWW Latency and Bandwidth Requirements by Real-Time Distillation" from the 5th International WWW Conference, May 6-10, 1996 Paris, France   |  |                |
|                                 |                          | MARC ABRAMS ET AL., "Caching Proxies: Limitations and Potentials", 7 October 1995   |  |                |
|                                 |                          | MY T. LE ET AL., InfoNet: the Networking Infrastructure of InfoPad, Proceedings of Compcon, March 1995, pp. 1-6, Electrical Engineering & Computer Sciences Department, University of California, Berkeley  |  |                |

|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.